

***Barclays Center:
Post-Opening Traffic Study Findings***

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Engineering
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Goals

- **Goal: To evaluate the effect of arena event vehicle traffic on the area roadway network.**
 - Pre-Opening (2012) Condition – To establish a baseline of traffic conditions in the arena study area.
 - Post-Opening (2013) Condition – To measure the effects of arena operations.
- **Draft scope presented to Atlantic Yards Transportation Working Group March 8, 2012.**
- **Public comments received through March 22, 2012.**
- **Final scope established by NYCDOT and published on ESD website on April 5, 2012.**

Study Scope

Intersection Counts

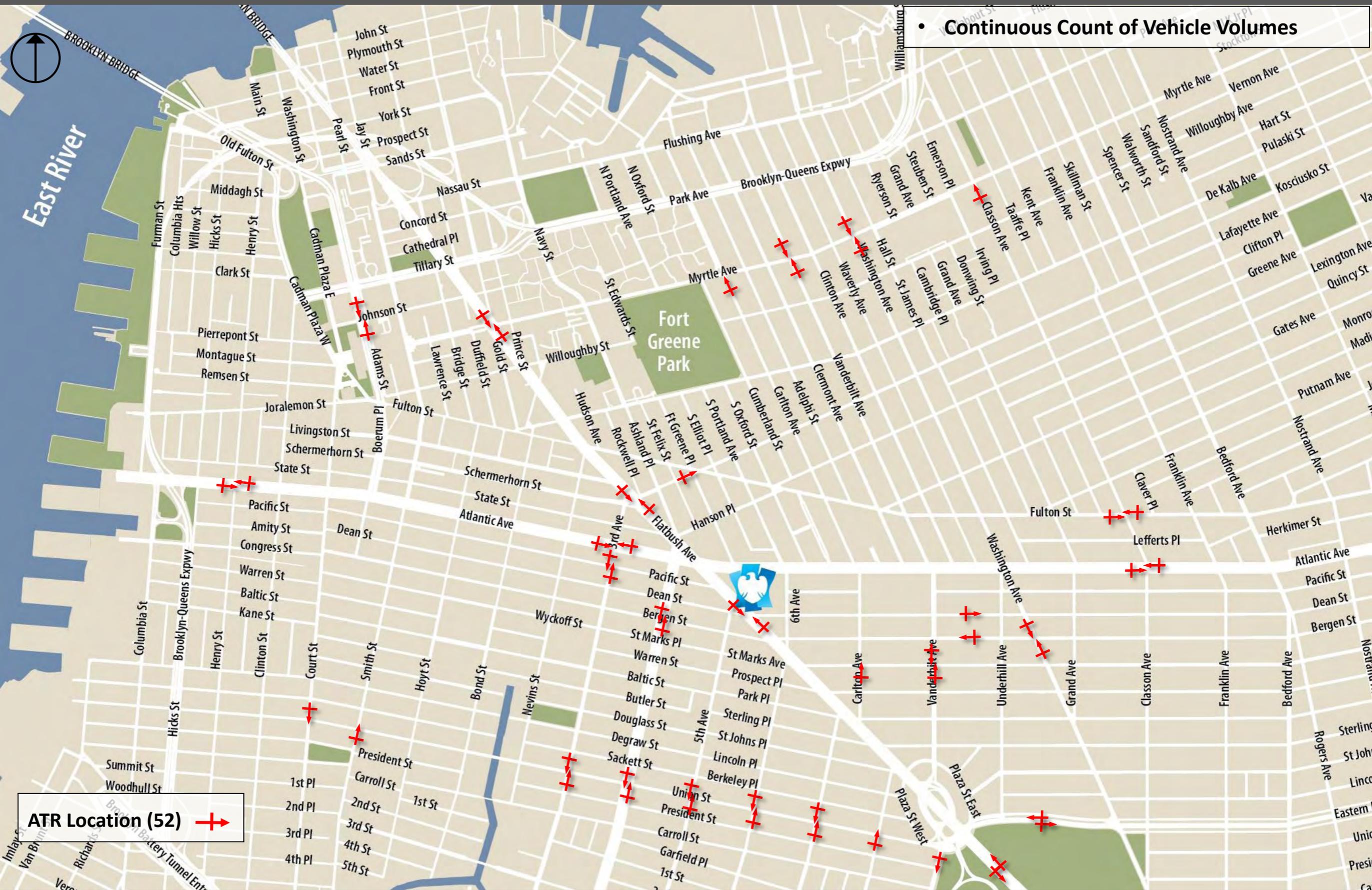
- Vehicle Movements
- Pedestrian Crossings
- Bicycles



Study Intersection (56)

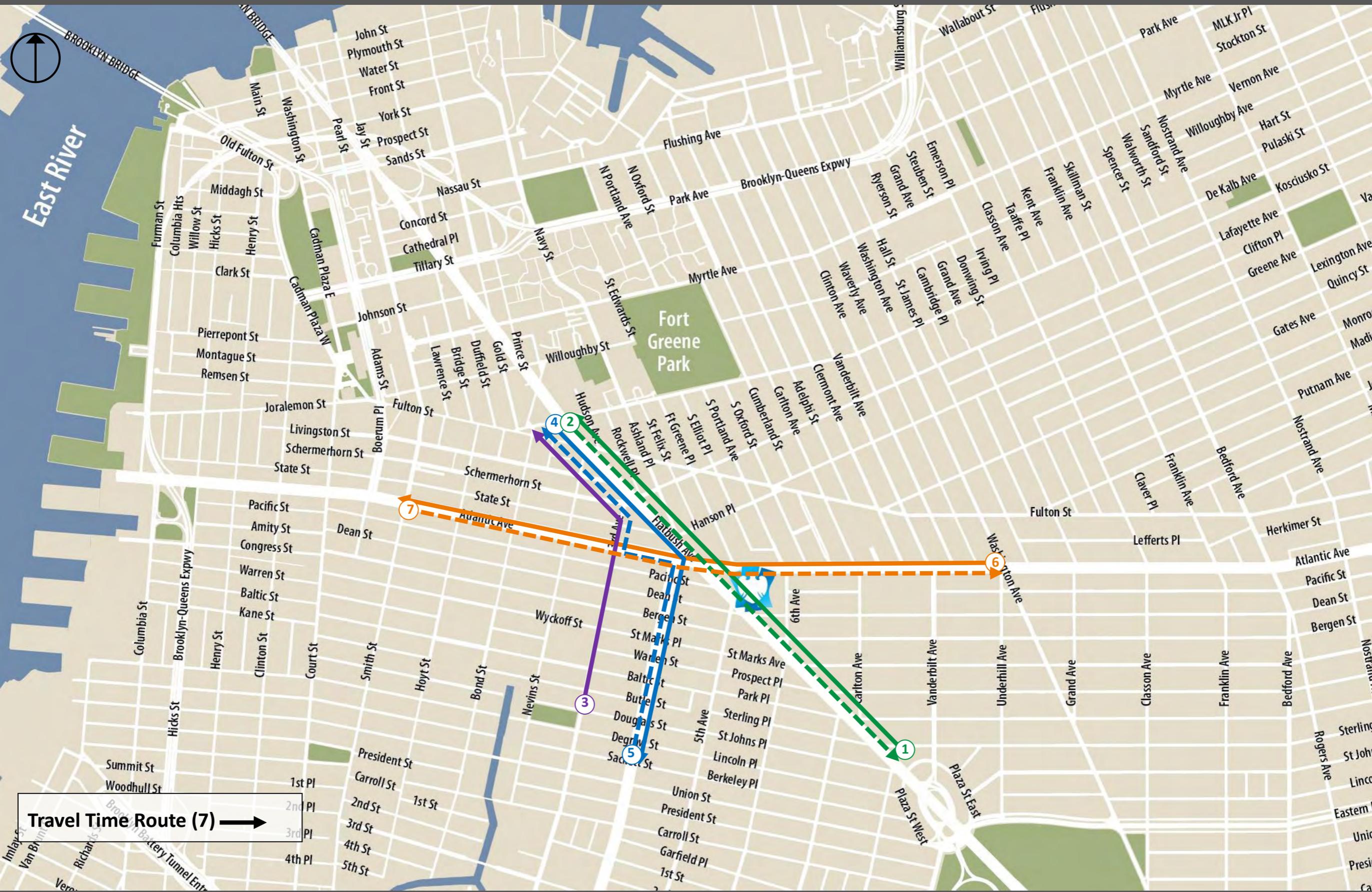
Automatic Traffic Recorders (ATRs)

- Continuous Count of Vehicle Volumes



ATR Location (52) 

Vehicle Travel Time Runs



Travel Time Route (7) →
1st Pl
2nd Pl
3rd Pl
4th Pl

- **Pre-Opening (2012) Condition**

- Intersection Counts/Travel Time Runs

- Saturday, June 2
 - Thursday, June 7

- ATRs

- Saturday, June 2 through Sunday, June 10

- **Post-Opening (2013) Condition**

- Intersection Counts/Travel Time Runs

- Nets vs. Bobcats: Saturday, April 6 (attendance: 15,585)
 - Nets vs. 76ers: Tuesday, April 9 (attendance: 15,000)

- ATRs

- Wednesday, April 3 through Tuesday, April 16

Analysis

- **Analysis Hours**

	Pre-Opening (2012)	Post-Opening (2013)
Weekday Pre-Event Peak Hour	7:00 PM – 8:00 PM	7:00 PM – 8:00 PM
Weekday Post-Event Peak Hour	10:00 PM – 11:00 PM	9:30 PM – 10:30 PM ¹
Saturday Pre-Event Peak Hour	7:00 PM – 8:00 PM	7:00 PM – 8:00 PM
Saturday Post-Event Peak Hour	10:00 PM – 11:00 PM	10:00 PM – 11:00 PM

1. Because the weekday game ended earlier than anticipated, the post-event peak hour analyzed for the Post-Opening (2013) Condition was shifted 30 minutes earlier to capture the peak fan departure period.

Analysis

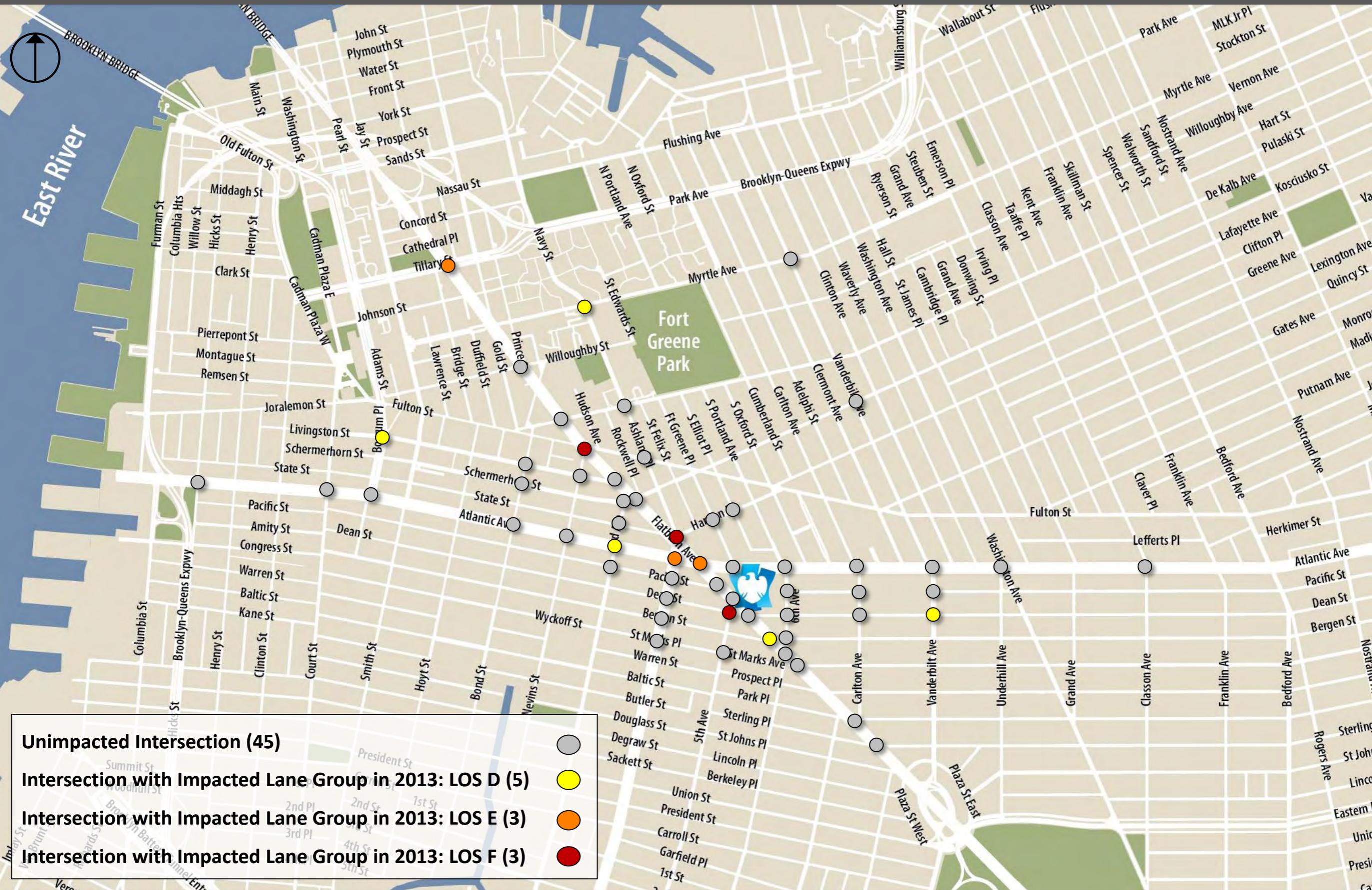
- Approach and Lane Group Impact Criteria

Pre-Opening (2012) Condition LOS	CEQR Threshold for Significant Impact ¹
LOS A, B, or C	LOS exceeds mid-D
LOS D	LOS exceeds mid-D & Delay increased by 5.0 or more seconds
LOS E	Delay increased by 4.0 or more seconds
LOS F	Delay increased by 3.0 or more seconds

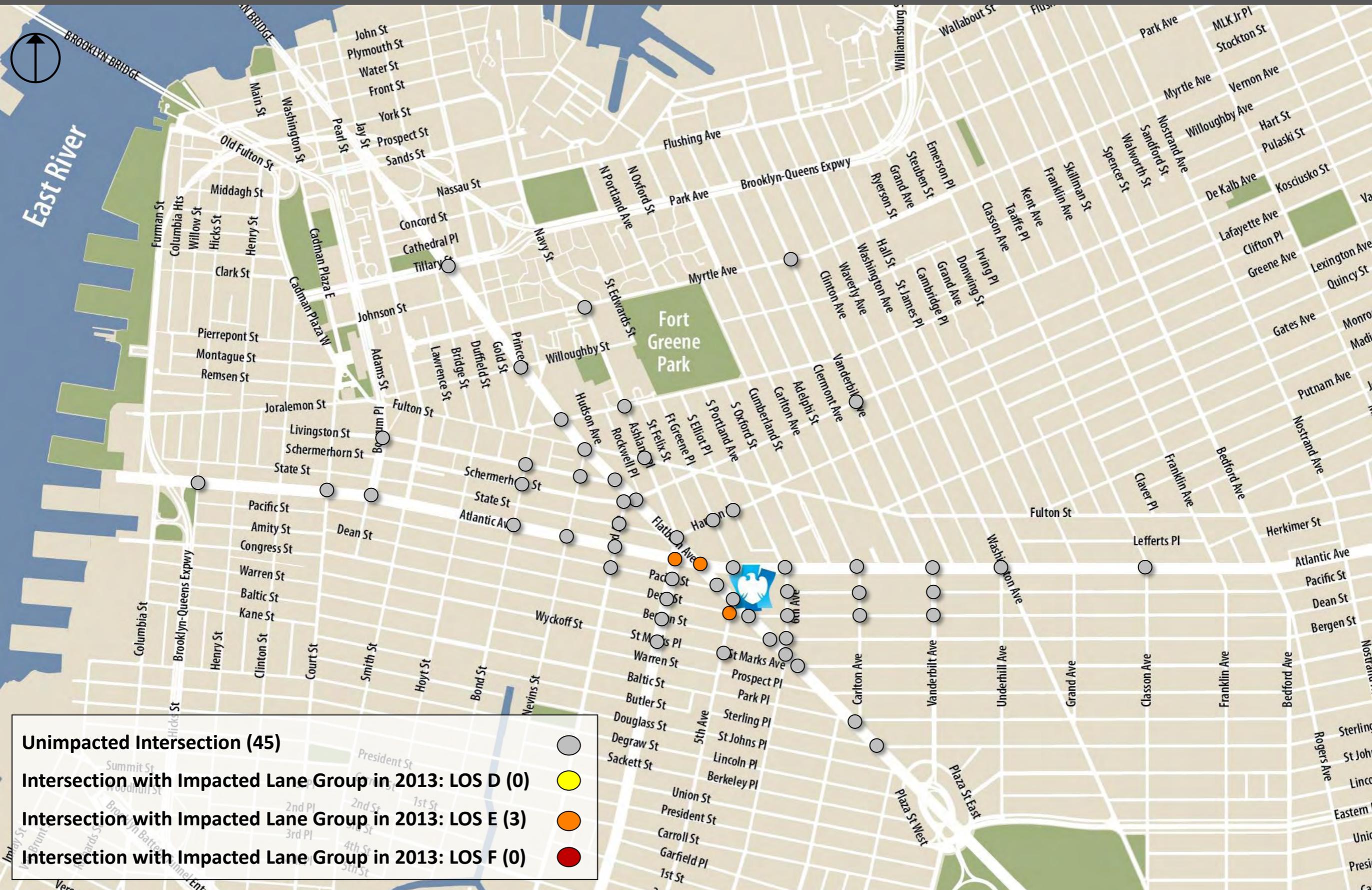
1. CEQR Technical Manual, Page 16-52 (2012)

Findings

Change from 2012 to 2013: Weekday Pre-Event Peak Hour



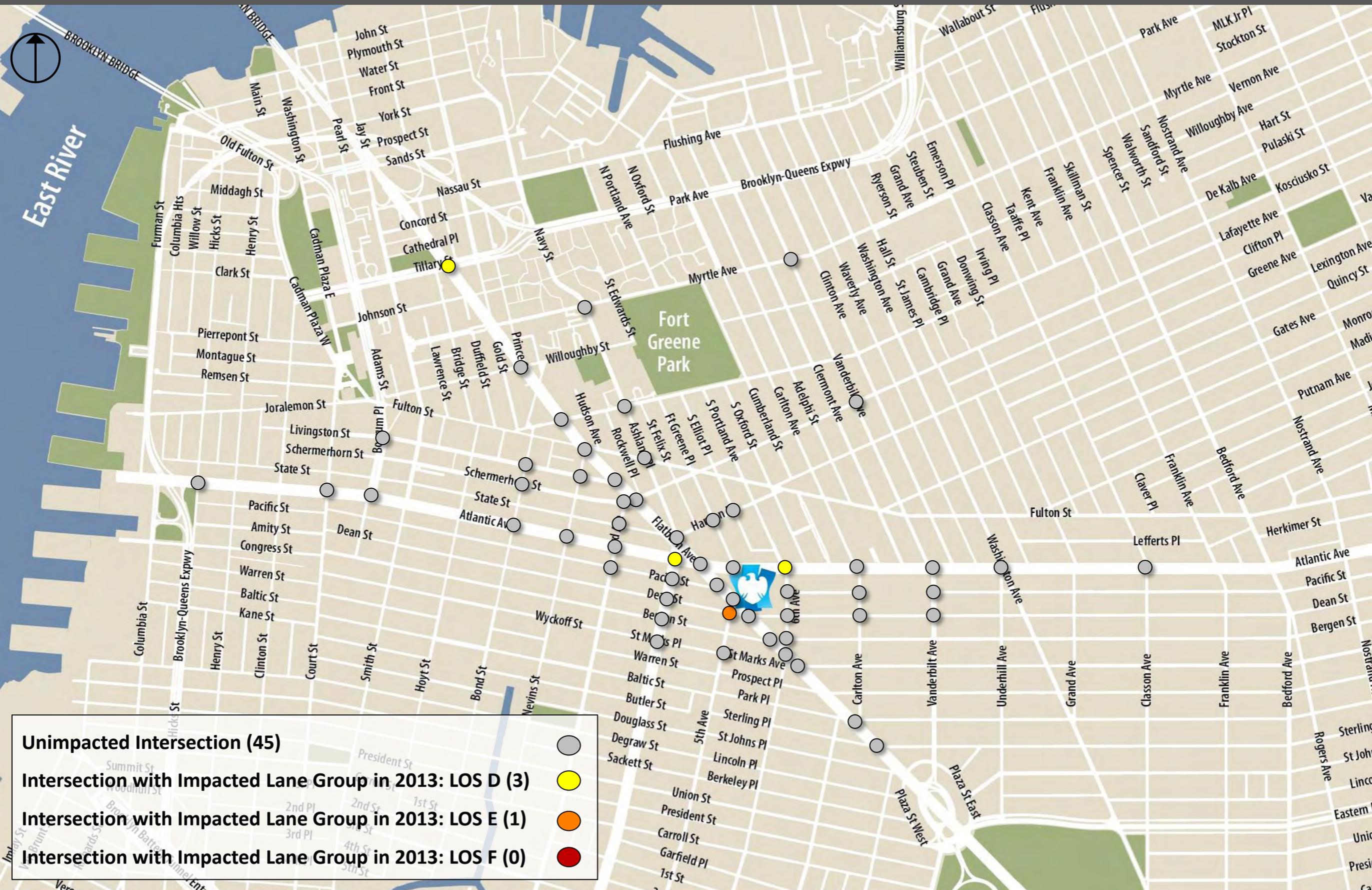
Change from 2012 to 2013: Weekday Post-Event Peak Hour



Change from 2012 to 2013: Saturday Pre-Event Peak Hour



Change from 2012 to 2013: Saturday Post-Event Peak Hour



Change from 2012 to 2013: Weekday Pre-Event Peak Hour

Travel Route

+/- mins Travel Time (minutes) change

+/- mph Travel Speed (mph) change

- 1** Flatbush Av: 8th Av to DeKalb Av
- 2** Flatbush Av: DeKalb Av to 8th Av
- 3** 3rd Av & Douglass St to Flatbush Av & DeKalb Av
- 4** Flatbush Av & DeKalb Av to 4th Av & Sackett St
- 5** 4th Av & Sackett St to Flatbush Av & DeKalb Av
- 6** Atlantic Av: Washington Av to Smith St
- 7** Atlantic Av: Smith St to Washington Av



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Change from 2012 to 2013: Saturday Pre-Event Peak Hour

Travel Route

+/- mins Travel Time (minutes) change

+/- mph Travel Speed (mph) change

1 Flatbush Av: 8th Av to DeKalb Av

2 Flatbush Av: DeKalb Av to 8th Av

3 3rd Av & Douglass St to Flatbush Av & DeKalb Av

4 Flatbush Av & DeKalb Av to 4th Av & Sackett St

5 4th Av & Sackett St to Flatbush Av & DeKalb Av

6 Atlantic Av: Washington Av to Smith St

7 Atlantic Av: Smith St to Washington Av



Change from 2012 to 2013: Saturday Post-Event Peak Hour

Travel Route

+/- mins Travel Time (minutes) change

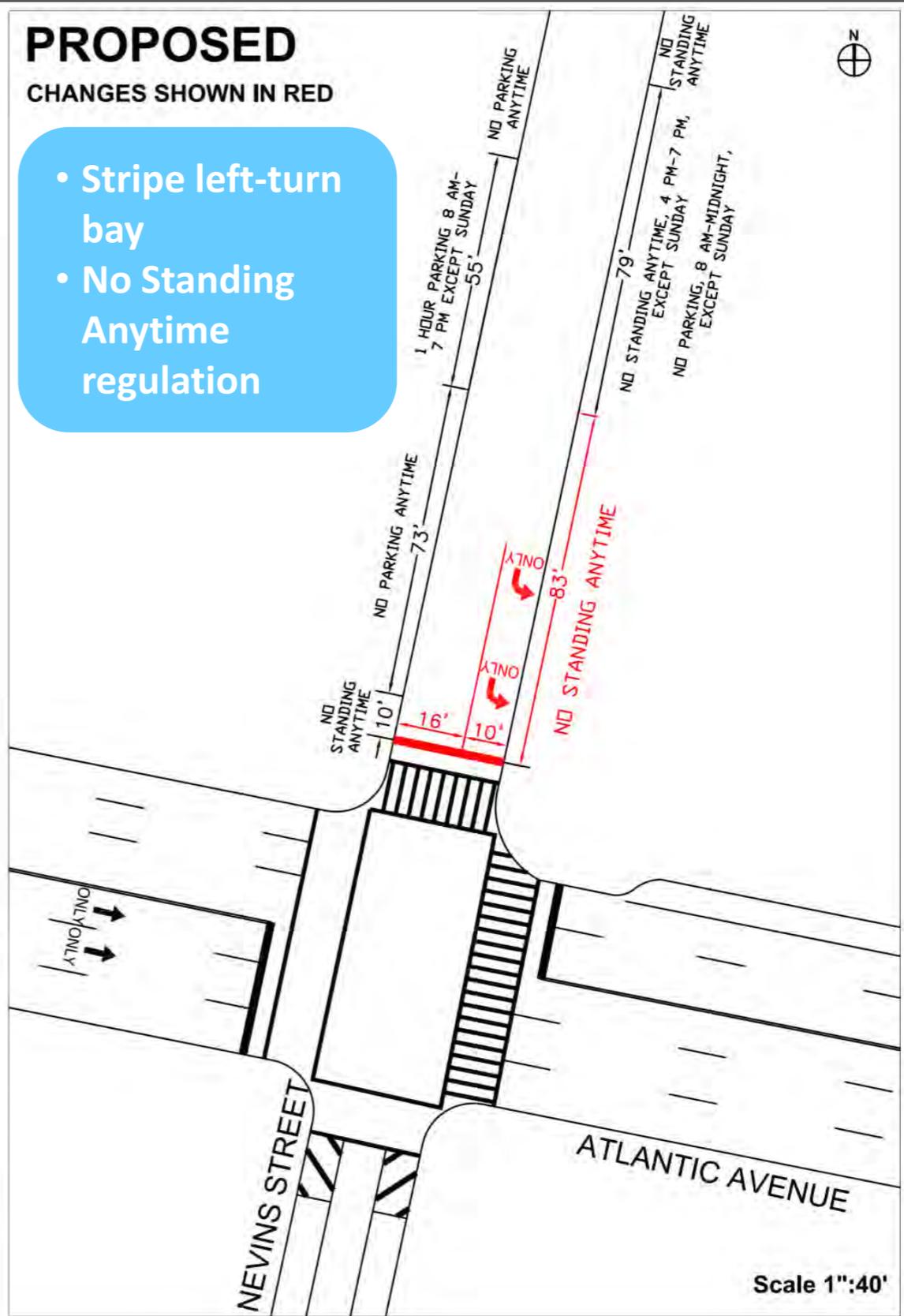
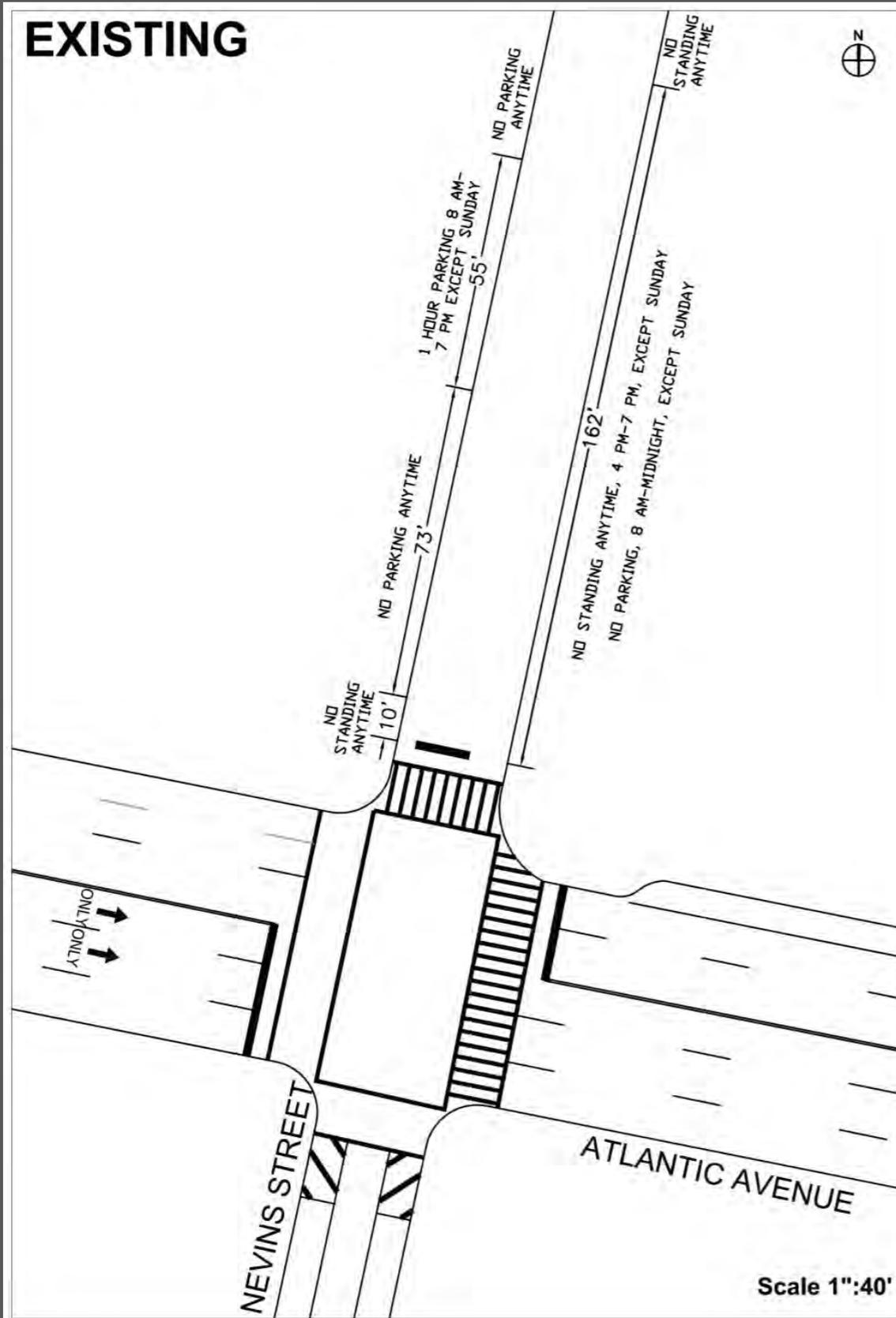
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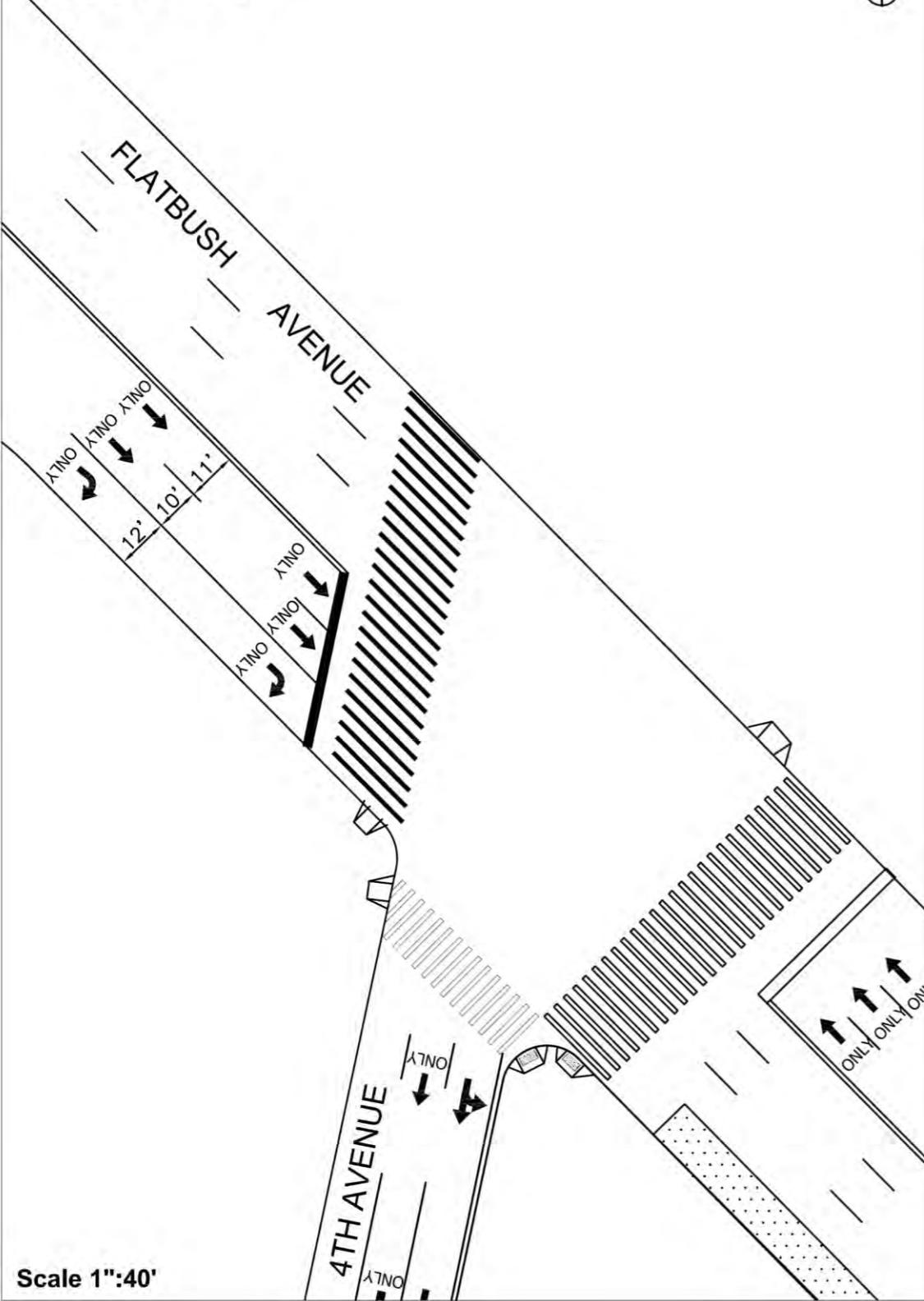
Improvement Measures

Improvement Measures: Atlantic Ave and Nevins Street



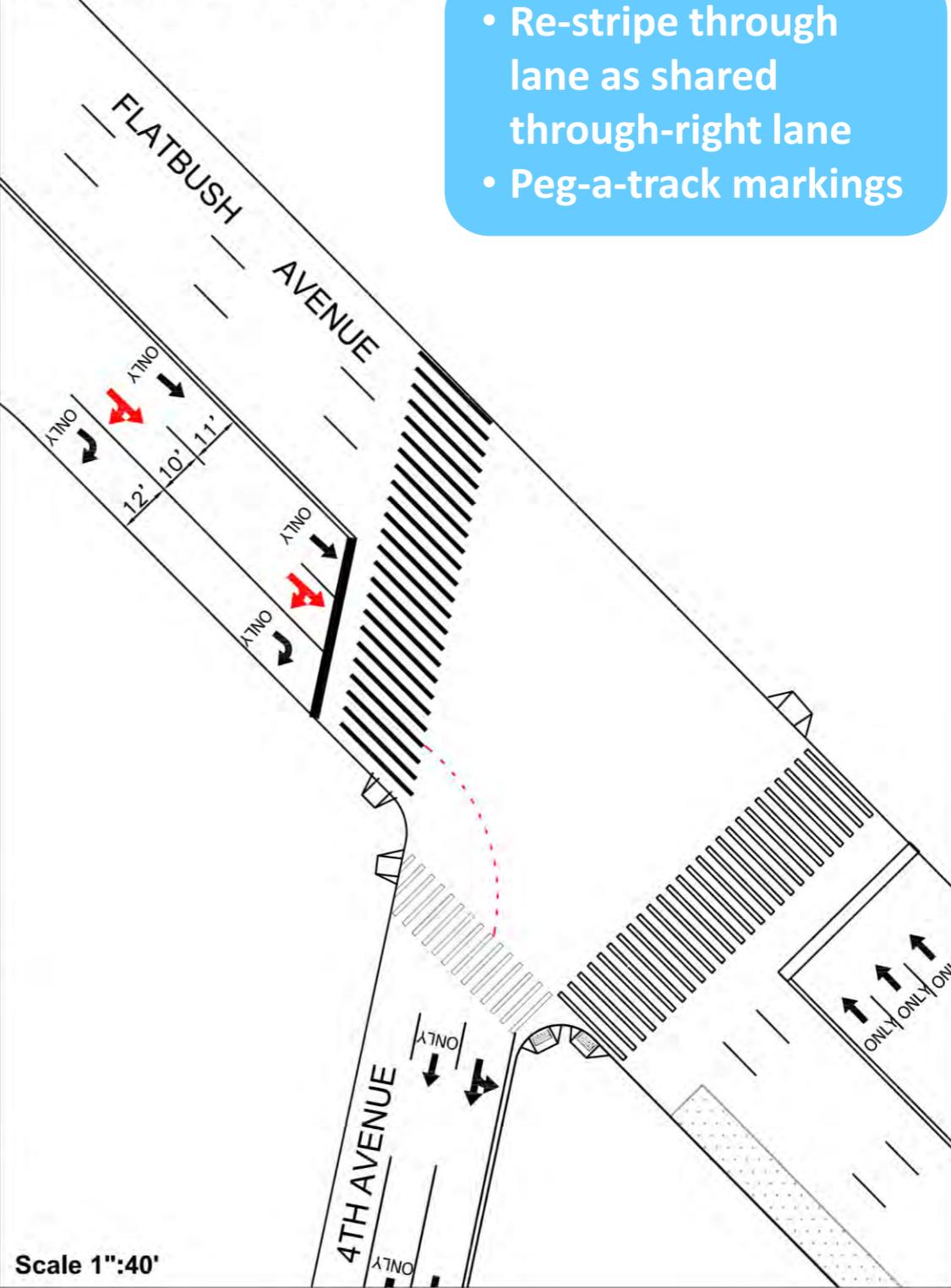
Improvement Measures: Flatbush Ave and Fourth Ave

EXISTING



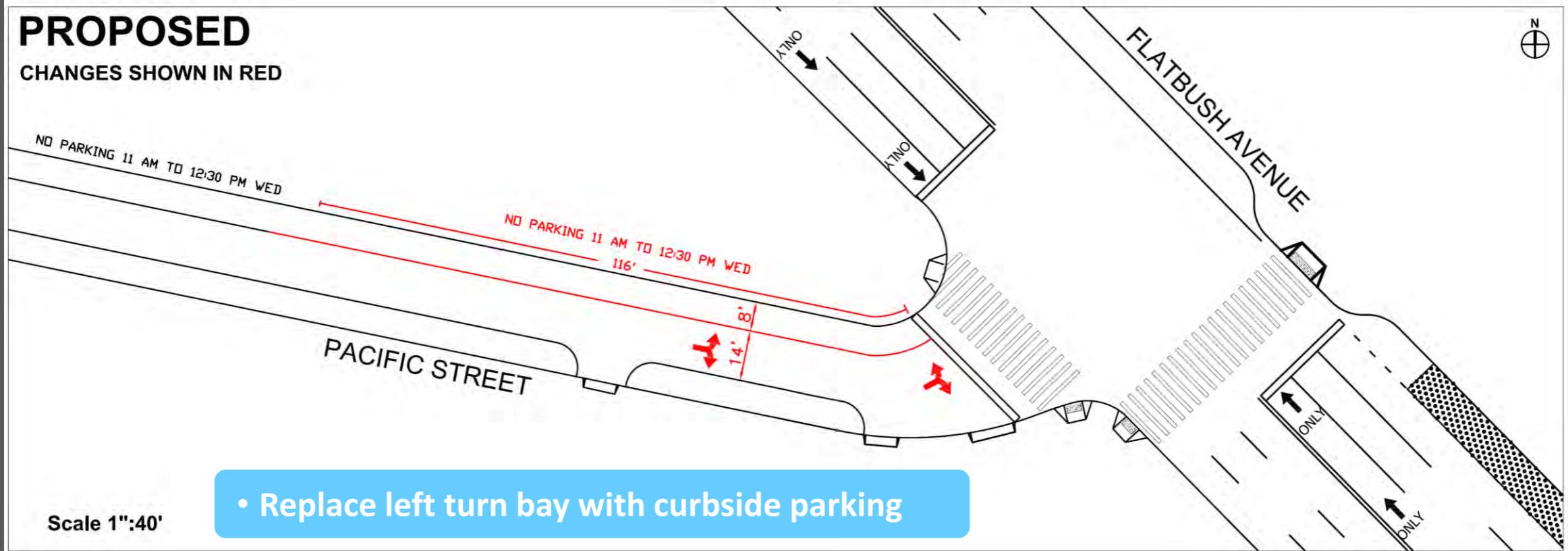
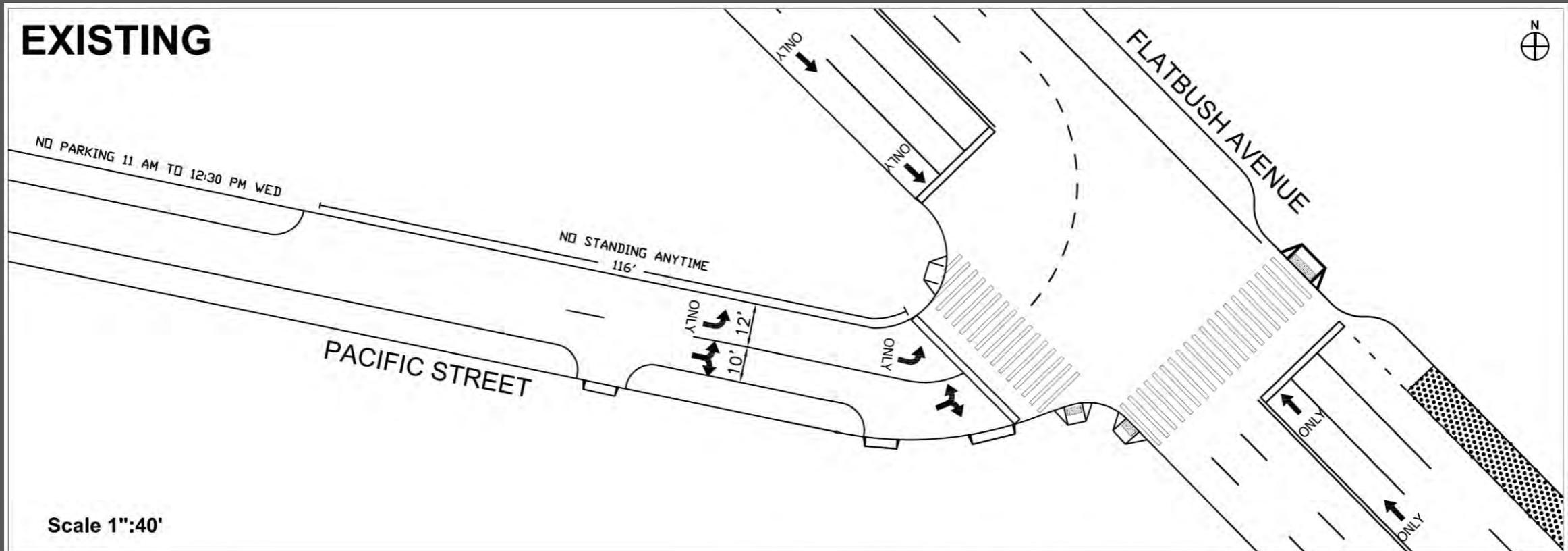
PROPOSED

CHANGES SHOWN IN RED

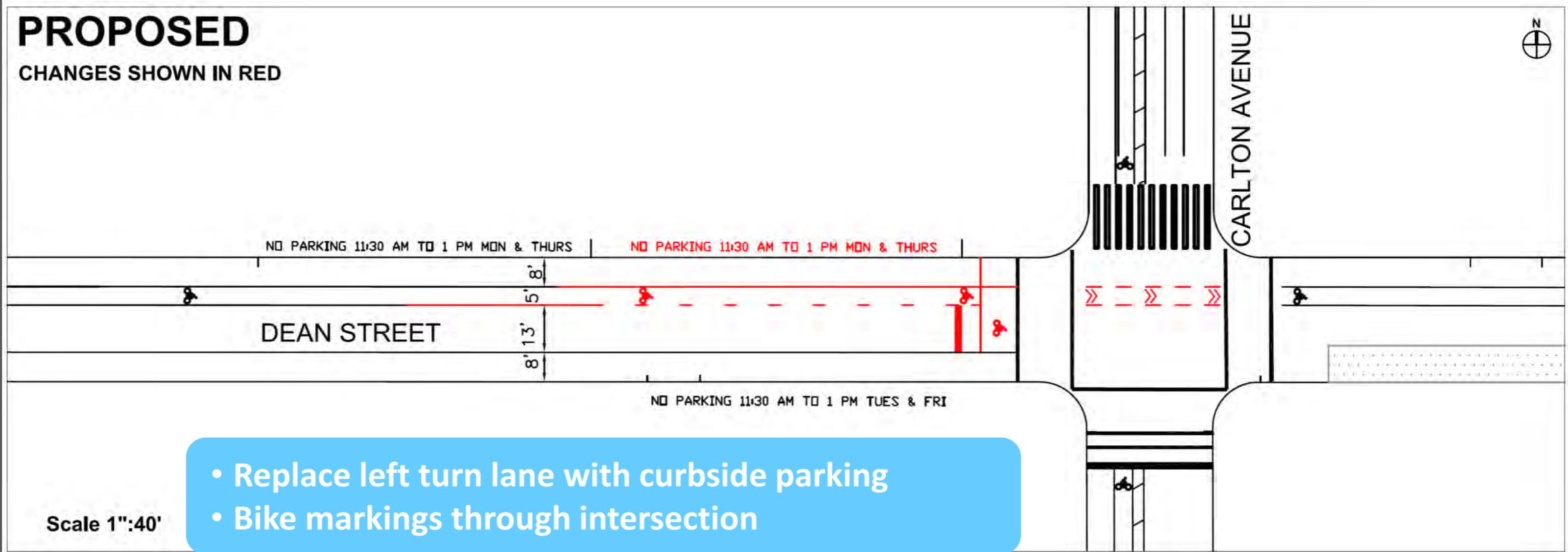
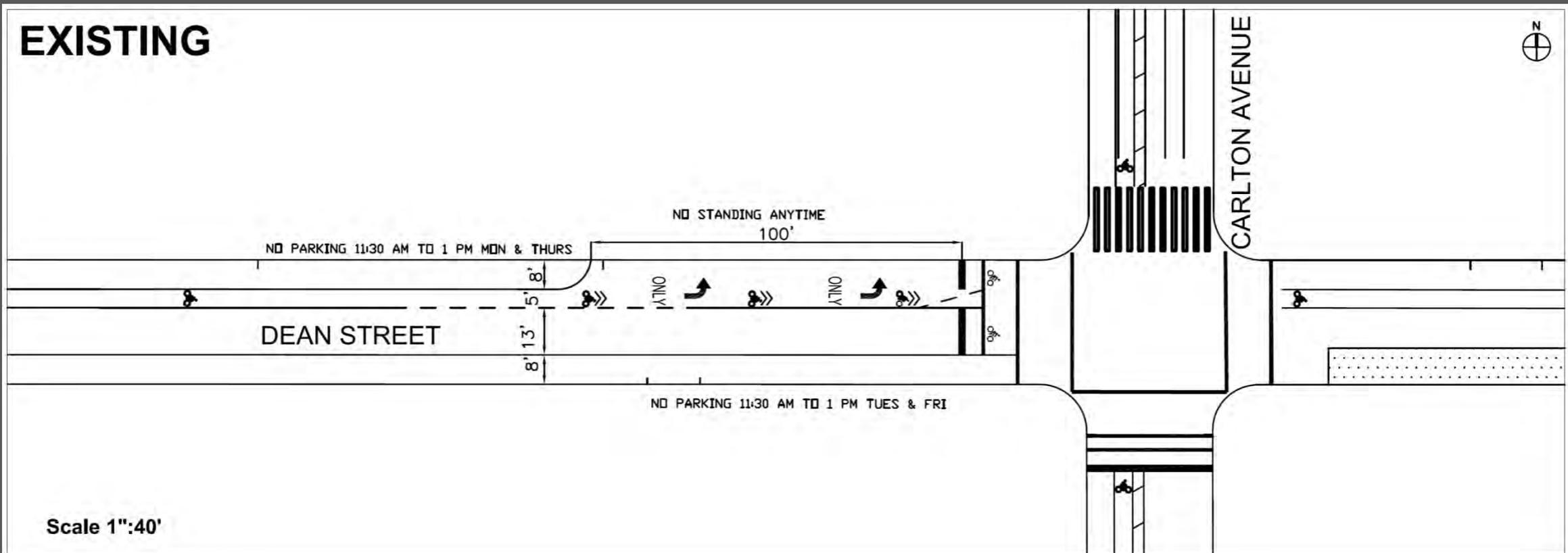


- Re-stripe through lane as shared through-right lane
- Peg-a-track markings

Improvement Measures: Flatbush Ave and Pacific Street



Improvement Measures: Carlton Ave and Dean Street



Improvement Measures: Signal Timing Changes

